

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/824,890	04/14/2004	Thomas C. Sloan	772-27-007	7320
23935 759	90 03/08/2006	EXAMINER		INER
KOPPEL, PATRICK & HEYBL			TRUONG, BAO Q	
555 ST. CHARLES DRIVE SUITE 107			ART UNIT	PAPER NUMBER
THOUSAND OAKS, CA 91360			2875	

DATE MAILED: 03/08/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

•		H'A			
	Application No.	Applicant(s)			
	10/824,890	SLOAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Bao Q. Truong	2875			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 08 F	ebruary 2006.				
·- · ·	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-48 is/are pending in the application. 4a) Of the above claim(s) 14-16,19-38,47 and 48 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-13,17,18 and 39-46 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9)☐ The specification is objected to by the Examine 10)☑ The drawing(s) filed on 29 September 2004 is/ Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11)☐ The oath or declaration is objected to by the Ex	are: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. Set tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	· <u></u>				
Paper No(s)/Mail Date 7/23/04 3/30/05 9/01/05 6) Other:					

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Species 1 of FIGs. 1-6 including claims 1-13, 15, 17, 18 and 39-48 readable thereon in the reply filed on 08 February 2006 is acknowledged. The traversal is on the ground(s) that the inventions are related as disclosed but are not distinct as claimed and search and examination can be made to the embodiments without serious burden. This is not found persuasive because the applicant does not submit evidence or identify such evidence showing the inventions (species) to be obvious variants or clearly admit that they are obvious to each other, as set forth in the election/restriction action. Therefore, the species, as different embodiments, are independently and patentable distinct. Since all of the embodiments of the invention are independently and patentable distinct, search and examination can be made to all of the embodiments with serious burden.

Moreover, claim 15 recites "flexible printed circuit material is horizontally mounted integral", which is not shown in FIGs. 1-6 of species 1. Claim 47 recites "at least one opaque strip arranged to block said light", which is shown in different embodiment, FIG. 16, Therefore, claims 15, 47 and 48 (dependent on claim 47) are withdrawn from consideration.

In view of above, claims 1-13, 17, 18 and 39-46 will be examination.

The requirement is still deemed proper and is therefore made FINAL.

Application/Control Number: 10/824,890 Page 3

Art Unit: 2875

Specification

2. The abstract of the disclosure is objected to because "comprises" in lines 2 and 3 should be changed to –includes/have--. Correction is required. See MPEP § 608.01(b).

3. The disclosure is objected to because of the following informalities: on page 8 line 12, "light sources 14" should be changed to –light source 15--.

Appropriate correction is required.

Claim Objections

4. Claim 6 is objected to because of the following informalities: "its" should be changed to what it refers. Appropriate correction is required.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1-9, 11-13, 17 and 39-46 are rejected under 35 U.S.C. 102(e) as being anticipated by Cleaver et al. [US 6,592,238].

Regarding claim 1, Cleaver et al. discloses an elongated flexible lighting system [10] having an array of light sources [24] being illuminated by electric power, and an

Application/Control Number: 10/824,890

Art Unit: 2875

elongated translucent extrusion of flexible material [12] dispersing light from the light sources [24] (figures 1-3, column 6 lines 4-22).

Regarding claims 2, 7 and 40, Cleaver et al. discloses the array of light sources [24] being cuttable at intervals (can be separated) (figure 18).

Regarding claim 3, Cleaver et al. discloses LEDs [24] (figure 2).

Regarding claim 4, Cleaver et al. discloses a linear array of LEDs [24] (figure 2).

Regarding claims 5 and 41, Cleaver et al. discloses a plurality of parallel connected sub-arrays of LEDs (figure 18).

Regarding claims 6 and 42, Cleaver et al. discloses a plurality of voltage regulators [234, 242] (figure 18).

Regarding claim 8, Cleaver et al. discloses a mounting means [40, 42] (figure 12).

Regarding claim 9, Cleaver et al. discloses a bracket [40] (figure 12).

Regarding claim 11, Cleaver et al. discloses means [resistor] for conducting the electrical power from the lighting system to another device [236] (figure 18).

Regarding claims 12, 13 and 43, Cleaver et al. discloses a PCB [26] being vertically mounted integral to the extrusion [12] (figure 3).

Regarding claim 17, Cleaver et al. discloses the extrusion [12] comprising silicone (column 5 line 48, column 1 line 22).

Regarding claim 39, Cleaver et al. discloses an elongated flexible lighting system [10] having an array of light sources [24] being illuminated by electric power, a plurality of electrical power regulators [234, 242], and an elongated translucent extrusion of

Art Unit: 2875

flexible material [12] dispersing light from the light sources [24] (figures 1-3 and 18, column 6 lines 4-22).

Regarding claims 44-46, Cleaver et al. discloses an elongated flexible lighting system [10] having an array of LEDs [24] being illuminated by electric power, a PCB [26] inheritance having conductive traces, which are on a surface of the PCB having different angles or directions, for electrical connection, and an elongated translucent extrusion of flexible material [12] dispersing light from the LEDs [24] (figures 1-3, column 6 lines 4-22).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 10 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cleaver et al. in view of Camarota [US 6,186,645].

Regarding claim 10, Cleaver et al. discloses an extrusion [12] and a mounting means including a bracket [40] and a fastener [42] (figure 12). Cleaver does not disclose the extrusion including one or more longitudinal grooves and the bracket having one or more lips, each lip arranged to mate with grooves.

Application/Control Number: 10/824,890

Art Unit: 2875

Camarota discloses a flexible lighting system having an extrusion [612, 614]

including grooves [at flanges 616 and 618] and a bracket [710] with lips [715, 714]

(figures 6-7).

It would have been obvious to a person of ordinary skill in the art at the time the

invention was made to modify the mounting means of Cleaver et al. with the grooves

and bracket with lips as taught by Camarota to secure each other for purpose of

providing an advantageous way of attaching a flexible lighting system to a surface.

9. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Cleaver

et al. in view of Slayden [US 6,361,186].

Regarding claim 18, Cleaver et al. discloses the extrusion [12] (figure 3) but does

not disclose a longitudinal cavity.

Slayden discloses a flexible lighting system including a diffusion extrusion [10,

11] including a longitudinal cavity [at 21] (figure 1 and 2, column 3 lines 1-15).

It would have been obvious to a person of ordinary skill in the art at the time the

invention was made to modify the extrusion of Cleaver et al. with the longitudinal cavity

as taught by Slayden to diffuse light for purpose of providing an advantageous way of

producing uniform light.

ALI ALAVI

Page 6

PRIMARY EXAMINER

Art Unit: 2875

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Sloan et al. [US 6,776,504] and Hulse et al. [US 6,874,924] disclose a flexible lighting system with horizontally position PCB with LEDs.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bao Q. Truong whose telephone number is (571) 272-2383. The examiner can normally be reached on Monday-Friday (8:00 AM - 4:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra L. O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bao Q. Truong Examiner Art Unit 2875